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This mate 18, U.S.C.	rial contains information affect Secs. 793 and 794, the transm	ing the National Defense of the Unission or revelation of which in a	ited States within t ny manner to an u	the meaning of the	is prohibited by law.
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COUNTRY	USSR (Moscow Obl	ast)	REPORT		
SUBJECT	Internal Grindin Zavod No. 221, i	g Machine Plant, n Moscow	DATE DISTR.	1 6 JUL 19	50
	(description 1) re	e)	NO. PAGES	1.	
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	A seven-nage reno	ort on the Internal Gr	rinding Maah;	no Dlant Ze	
A seven-page report on the Internal Grinding Machine Plant. Zavod No. 221, in Moscow Zavod No. 221, located on Paveletskaya 50X1-HUM naberezhnaya, was engaged in the production and assembly of various types of machinery, notably lathes; and Machine Shop No. 1, within the factory, filled orders for parts for production lathes. The plant was on two shifts, estimated work force total about 3,000. This 50X1-HUM report lists some plant products and includes sketches of the layout of Machine Shop No. 1, and Zavod No. 221 as a whole.					
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system there as being very lax.

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Site Layout of Zavod No. 221

6.	the pl	owing is the legend for the sketch on page 7, which gives plant's layout. The numbers in parentheses are keyed to those he sketch.			
	(1)	Paveletskaya naberezhnaya - Peveletsky Embankment. This street was never known as ulitsa. It was always referred to by the plant personnel as Paveletskaya naberezhnaya.	50X1-HUN		
	(2)	Approximate location of the Moskva River.			
	(3)	Personnel entrance.			
	(4)	Vehicle entrance.			
	(5)	Administration building, a three-story, brick building which housed offices of the plant director and finance, bookkeeping, and other administrative personnel.	50X1-HUM		
	(6)	Personnel section (otdel kadrow). This building, a two-story construction, could be entered from the side street, name unknown	50X1-HUN		
	(7)	Large warehouse. This was a one-story construction at which a variety of workers' apparel, tools, and instruments were stored. Shoes, gloves, smocks and overalls were frequently issued here to plant personnel.			
	(8)	Laboratory, two-story brick building.			
	(9)	Fire department.			
	(10)	Construction site of a building which was not yet completed in October 1956.			
	(11)	This was a two-story brick building known to plant personnel as "Obshchezhitiye" (bachelors' quarters). Several workers' families also lived there.			
	(12)	Assembly Shop No. 5. The second floor of this building housed a number of workshops and offices	50X1-HUM		
	(13)	Machine Shop No. 1, Small parts workshop. (For details see sketch No. 2 on page 8 .)			
	(14)	Machine Shop No. 2, Large parts workshop. (For details see sketch No. 2 on page 8.)			
	(15)	This was a two-story, brick building. 50X1-			
	(16)	Marke Took 1 3 days are a larger to a second and a second			
		This building was known to source as "Kotelnyy tsekh". this shop manufactured such large parts as lathe housings and bases, boilers, large wheels, etc. Adjacent	50X1-HUM		
		to this building was a smokestack	50X1-HUN		
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Sanitized Copy Approved for Release 2010/08/02: CIA-RDP80T00246A049400790001-7 C-O-N-F-I-D-E-N-T-I-A-L - 4 50X1-HUM (17) Die-stamping shop (Stampovochnyy tsekh). 50X1-HUM (18)Warehouse, two stories high. (19)Assembly workshop No. 4. (20) A two-story, brick building. The lower floor contained a mechanical workshop called the turret lathe 50X1-HUM shop (Revolvernyy tsekh). The top floor was occupied by a shop making molds and models. (21.)Tempering shop (Termicheskiy tsekh). (22)The lower floor of this building was occupied by a carpentry shop. The top floor housed the plant's large messhall capable of accommodating 500 or more at one sitting. There were three to four sittings per day beginning at 1100 hours. The last sitting was close to 1500 hours. (23) Electric or heating plant. 50X1-HUM (24) Foundry. Items cast at this shop were for use of the plant's workshops. (25) Machine Shop No. 3 50X1-HUM (26) Possible outline of fence around the plant. Layout of Machine Shop No. 1 (Tsekh No. 1) 4. Following is the legend for the sketch on page 8, giving the layout of Machine Shop No. 1 which consisted of two sections, a small (malyy) parts and a large (bolshoy) parts workshop, employing a total of between 100 and 120 persons. there were many machines of various types. The lathes were of German, 50X1-HUM and Soviet origon; source was unable to indicate the types The numbers in 50X1-HUM parentheses are keyed to those on the sketch. Small Parts Workshop Entrance into the small workshop. Mechanical workshop (slesarnaya). This section, staffed with four or five Soviet mechanics, had the responsibility for repair and maintenance of all mechanical equipment at the small workshop. Several Soviet and German lathes were located in this corner. (3) One turret (revolvernyy) and several standard turning lathes, D-200 and D-300 type. A large work table at which one or two mechanics traced or punched the outlines on metal blocks, molds, and parts to be worked on in the various sections of the shop. called master mechanics (mastera), These Soviets 50X1-HUM did their tracing in accordance with blueprints supplied to them by the chief mechanic of the section.

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(5) Turning lathes, D-200 (Tokarnyye stanki)

(6) Milling machine (frezernyy stanok)

(7) Planing lathe (Strogalnyy stanok)
 (8) Groowing machine (Dolbezhnyy stanok)

(9) OTK section, staffed with one or two inspectors and two assistants, this group performed the technical control of all finished products.

about the system of inspection performed there, but said that approvied items were stamped with a small triangular stamp which, to the best of his recollection, either had the letters OTK or Tekh Kontrol within the small triangle, as illustrated below. One triangle was stamped for approved items and two for those rejected (Zabrakovannyye).

(10) Passage from the small to the large workshop.

(11) Stairs leading to the second floor of this building.

The broken lines on this sketch denote the space occupied by the second floor which contained a number of offices.

50X1-HUM

The "x" marks denote the approximate position of metal support columns within the shop. There were no partitions that the one separating the small from the large workshop.

(12) Two small internal grinding lathes.

- (13) Surface grinding machine (Ploskoshlifovalnyy stanok)
- (14) Thread-cutting machine (Rezboshlifovalnyy stanok)

(15) Two internal grinding lathes.

- (16) Gear-cutting machines (Zuboreznyye stanki)
- (17) Design and measuring table.

(18) Surface grinding machine.

- (19) OTK Office. Additional work on inspection and measuring was performed there (Izmeryali detali).
- (20) Two turret lathes and two standard turning lathes, D-200.
- (21) Broaching lathe, for boring holes (Stanok dlya protyazhki detaley).
- (22) Thread-cutting lathes.
- (23) Turning lathes, D-200.

(24) Hall passage.

(25) Turning lathes, D-200.

- (26) Broaching machine (Krugloshlifovalnyy stanok).
- (27) Grinder (Tochilnyy stanok).

(28) Drilling (Sverlilnyye stanki).

- (29) Drilling machine (Sverlilnaya mashina).
- (30) Broaching machines.
- (31) Milling machines.
- (32) Two overhead cranes, six to ten tons.

B. Large Parts Workshop

- (1) Drilling machine.
- (2) Broaching machines.
- (3) Planing lathes.
- (4) OTK.
- (5) Tracing section, similar to (4) in small workshop.
- (6) Internal grinding machines.
- (7) Planing lathe.
- (8) Drilling machine.
- (9) Large cylinder and broaching machine.

(10) Thread-cutting lathes.

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	- 6 -	50X1-HUM
(ll) Small p	laning lathe.	50X1-HUM
(12) Vertica	l boring and turning machine (Karus d traveling crane, tonnage unknown.	eln yy ste nok).
		50X1-HUM

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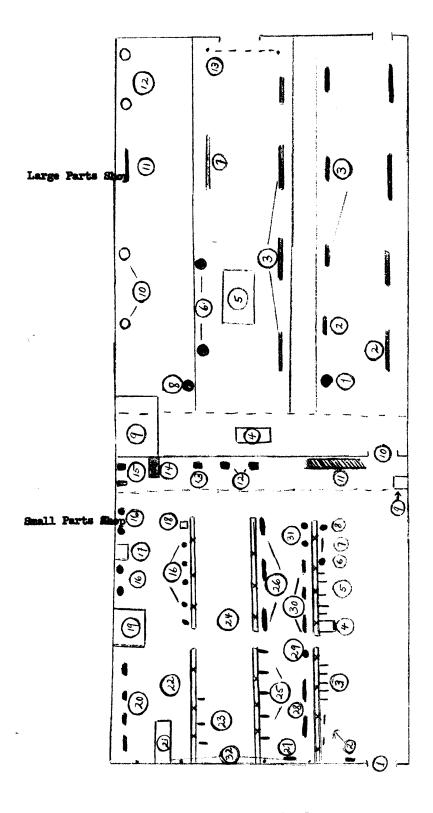
Sanitized Copy Approved for Release 2010/08/02 : CIA-RDP80T00246A049400790001-7 50X1-HUM 50X1-HUM Site Layout of Zavod No. 221 in Moscow 50X1-HUM 2 1 Location of small over-head crane 20 12 14 5 C-O-N-F-I-D-E-N-T-I-A-L C-O-N-F-I-D-E-N-T-I-A-L and plant 21 6 7 and plants) 16 15 22 **2**3 17 awn and 8 18 24 25 26 Sanitized Copy Approved for Release 2010/08/02 : CIA-RDP80T00246A049400790001-7

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Layout of Machine Shop No. 1 at Zavod No. 221 in Moscov



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